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Amendments to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application.

1-19. (Canceled)

20. (New) A method for the treatment of sleep disturbance due to silent gastro-esophageal reflux, the method comprising administering an effective amount of a potassium-competitive acid blocker (P-CAB) to a patient in need thereof.

21. (New) The method according to claim 20, wherein the P-CAB is a compound having Formula I,

$$R^6$$
 R^7
 R^7
 R^3
 R^4
 R^5
 R^5

or a pharmaceutically acceptable salt thereof, wherein

R¹ is:

(a) H,

(b) CH_3 , or

(c) CH₂OH;

R is:

(a) CH₃, or

(b) CH₂CH₃;

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 R^3 is: (a) H,

- (b) C_1 - C_6 alkyl,
- (c) hydroxylated C₁-C₆ alkyl, or
- (d) halogen;

 R^4 is: (a) H,

- (b) C_1 - C_6 alkyl,
- (c) hydroxylated C_1 - C_6 alkyl, or
- (d) halogen;

R⁵ is: (a) H, or

(b) halogen;

 R^6 and R^7 are the same or different and are independently selected from:

- (a) H,
- (b) C_1 - C_6 alkyl,
- (c) hydroxylated C₁-C₆ alkyl, and
- (d) C_1 - C_6 alkoxy-substituted C_1 - C_6 alkyl; and

X is:

- (a) NH, or
- (b) O.
- 22. (New) The method according to claim 21, wherein

R¹ is CH₃ or CH₂OH;

R², R³ and R⁴ are the same or different and independently selected from CH₃ and CH₂CH₃;

R⁵ is H, Br, Cl, or F; and

 R^6 , R^7 are the same or different and independently selected from H, C_1 - C_6 alkyl and hydroxylated C_1 - C_6 alkyl.

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- 23. (New) The method according to claim 20, wherein the P-CAB compound is selected from the group consisting of:
- 8-(2-ethyl-6-methylbenzylamino)-3-hydroxymethyl-2-methylimidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2,6-dimethylbenzylamino)-N-hydroxyethyl-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2-ethyl-6-methylbenzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 8-(2-ethyl-6-methylbenzylamino)-N,2,3-trimethylimidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2,6-dimethylbenzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2-ethyl-4-fluoro-6-methylbenzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2,6-dimethyl-4-fluoro-benzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2,6-diethylbenzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3 dimethyl-8-(2-ethyl-6-methylbenzylamino)-N-hydroxyethyl-imidazo[1,2-a]pyridine-6-carboxamide, and
- 2,3 dimethyl-8-(2-ethyl-6-methylbenzylamino)-N-(2-methoxyethyl)-imidazo[1,2-a]pyridine-6-carboxamide.
- 24. (New) The method according to any one of claims 21-23, wherein the P-CAB compound is in the form of a hydrochloride salt or mesylate salt.
- 25. (New) A pharmaceutical formulation for the treatment of sleep disturbance due to silent gastro-esophageal reflux, the formulation comprising a P-CAB compound as active ingredient and one or more pharmaceutically acceptable diluents or carriers.
- 26. (New) The pharmaceutical formulation according to claim 25, wherein the formulation is formulated for immediate release of the active ingredient.
- 27. (New) The pharmaceutical formulation according to claim 25, wherein the formulation is formulated for modified release of the active ingredient.

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28. (New) The pharmaceutical formulation according to claim 25, wherein the P-CAB compound is Formula I,

$$R^6$$
 R^7
 R^7
 R^2
 R^4
 R^3

or a pharmaceutically acceptable salt thereof, wherein

R¹ is:

- (a) H,
- (b) CH₃, or
- (c) CH₂OH;

R is:

- (a) CH₃, or
- (b) CH₂CH₃;

 R^3 is:

- (a) H,
- (b) C_1 - C_6 alkyl,
- (c) hydroxylated C_1 - C_6 alkyl, or
- (d) halogen;

 R^4 is:

- (a) H,
- (b) C_1 - C_6 alkyl,
- (c) hydroxylated C₁-C₆ alkyl, or
- (d) halogen;

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R⁵ is: (a) H, or

(b) halogen;

 R^6 and R^7 are the same or different and are independently selected from:

- (a) H,
- (b) C₁-C₆ alkyl,
- (c) hydroxylated C₁-C₆ alkyl, and
- (d) C₁-C₆ alkoxy-substituted C₁-C₆ alkyl; and

X is: (a) NH, or

(b) O.

29. (New) The formulation according to claim 28, wherein:

R¹ is CH₃ or CH₂OH;

R², R³ and R⁴ are the same or different and independently selected from CH₃ and CH₂CH₃;

R⁵ is H, Br, Cl, or F; and

- R^6 , R^7 are the same or different and independently selected from H, C_1 - C_6 alkyl and hydroxylated C_1 - C_6 alkyl.
- 30. (New) The formulation according to claim 25, wherein the P-CAB compound is selected from the group consisting of:
- 8-(2-ethyl-6-methylbenzylamino)-3-hydroxymethyl-2-methylimidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2,6-dimethylbenzylamino)-N-hydroxyethyl-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2-ethyl-6-methylbenzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 8-(2-ethyl-6-methylbenzylamino)-N,2,3-trimethylimidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2,6-dimethylbenzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2-ethyl-4-fluoro-6-methylbenzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3-dimethyl-8-(2,6-dimethyl-4-fluoro-benzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,

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- 2,3-dimethyl-8-(2,6-diethylbenzylamino)-imidazo[1,2-a]pyridine-6-carboxamide,
- 2,3 dimethyl-8-(2-ethyl-6-methylbenzylamino)-N-hydroxyethyl-imidazo[1,2-a]pyridine-6-carboxamide, and
- 2,3 dimethyl-8-(2-ethyl-6-methylbenzylamino)-N-(2-methoxyethyl)-imidazo[1,2-a]pyridine-6-carboxamide.
- 31. (New) The formulation according to any one of claims 28-30, wherein the P-CAB compound is in the form of a hydrochloride salt or mesylate salt.
- 32. (New) A method for the treatment of sleep disturbance due to silent gastro-esophageal reflux, the method comprising administering an effective amount of a reversible proton pump inhibitors to a patient in need thereof.
- 33. (New) The method according to claim 32, wherein the proton pump inhibitor is soraprazan.
- 34. (New) A pharmaceutical formulation for the treatment of sleep disturbance due to silent gastro-esophageal reflux, the formulation comprising a reversible proton pump inhibitors as active ingredient and one or more pharmaceutically acceptable diluents or carriers.
- 35. (New) The pharmaceutical formulation according to claim 34, wherein the formulation is formulated for immediate release of the active ingredient.
- 36. (New) The pharmaceutical formulation according to claim 34, wherein the formulation is formulated for modified release of the active ingredient.
- 37. (New) The pharmaceutical formulation according to claim 34, wherein the proton pump inhibitor is soraprazan.